

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim 1 (currently amended): A preformed glass material for molding which is a ~~preformed glass material and has~~ comprises a self-assembled film on ~~[[the]] a surface thereof.~~

Claim 2 (currently amended): The glass material ~~according to claim 1 of Claim 1,~~ wherein ~~the surface~~ a free surface energy of the glass material ~~on which~~ comprising the self-assembled film ~~has been provided exhibits a free surface energy of less than or equal to~~ on the surface is 60 mJ/m² or less.

Claim 3 (currently amended): The glass material ~~according to claim 1 of Claim 2,~~ wherein the self-assembled film ~~is comprised of~~ comprises at least one of an organic silicon-containing compound, an organic sulfur-containing compound, an organic fluorine-containing compound, ~~[[or]]~~ and an organic nitrogen-containing compound.

Claim 4 (currently amended): The glass material ~~according to claim 1 of Claim 3,~~ wherein the self-assembled film ~~is comprised of~~ comprises at least one compound selected from ~~[[among]]~~ the group consisting of trialkyl silane compounds, dialkyl silane compounds, alkyl silane compounds, alkyl dimethyl silane compounds, alkane thiol compounds, dialkyl sulfide compounds, dialkyl disulfide compounds, and dimethyl ammonium compounds.

Claim 5 (currently amended): A method of manufacturing a glass material for molding, comprising:

~~a step of~~ immersing a preformed glass material in an organic solution ~~comprising~~ containing an organic silicon-containing compound, an organic sulfur-containing compound, an organic fluorine-containing compound, or an organic nitrogen-containing compound to obtain ~~[[a]]~~ the glass material ~~having~~ comprising a self-assembled film on a surface.

Claim 6 (currently amended): The method of ~~manufacturing according to claim 5~~ Claim 5, wherein ~~the molecule of~~ the organic silicon-containing compound, the organic sulfur-containing compound, the organic fluorine-containing compound, or the organic nitrogen-containing compound comprises a -Cl group, -H group, or (S-S) group in its molecule.

Claim 7 (currently amended): The method of ~~manufacturing a glass material for molding according to claim 5~~ Claim 6, wherein the organic silicon-containing compound, the organic sulfur-containing compound, the organic fluorine-containing compound, or the organic nitrogen-containing compound ~~[[is]] comprises~~ at least one ~~member~~ selected from ~~[[among]]~~ the group consisting of chlorotrialkyl silane compounds, dichlorodialkyl silane compounds, trichloroalkyl silane compounds, ~~alkyldimethyl-(dimethylamino)-silane~~ alkyldimethyl(dimethylamino)silane compounds, alkanethiol compounds, dialkylsulfide compounds, dialkyldisulfide compounds, and dimethylammonium compounds.

Claim 8 (currently amended): The method of ~~manufacturing according to claim 5~~ Claim 6, wherein ~~concentration of the organic compound in~~ the organic solution comprises the organic silicon-containing compound, the organic sulfur-containing compound, the organic fluorine-containing compound, or the organic nitrogen-containing compound ~~[[is]] in~~ an amount of 0.01 to 10 weight percent.

Claims 9-12 (canceled)

Claim 13 (new): The method of Claim 7, wherein the organic solution comprises the organic silicon-containing compound, the organic sulfur-containing compound, the organic fluorine-containing compound or the organic nitrogen-containing compound in an amount of 0.01 to 10 weight percent.

Claim 14 (new): A method of manufacturing a glass material for molding comprising:

providing a self-assembled film on a surface of a preformed glass material; and
heat-treating the glass material comprising the self-assembled film on the surface in a non-oxidizing atmosphere so that at least a part of the self-assembled film is thermally decomposed.

Claim 15 (new): The method of Claim 14, wherein providing a self-assembled film on the surface of the preformed glass material comprises immersing the preformed glass material in an organic solution containing an organic silicon-containing compound, an organic sulfur-containing compound, an organic fluorine-containing compound or an organic nitrogen-containing compound to obtain the glass material comprising the self-assembled film on a surface.

Claim 16 (new): The method of Claim 15, wherein the organic silicon-containing compound, the organic sulfur-containing compound, the organic fluorine-containing compound or the organic nitrogen-containing compound comprises a —Cl group, —H group, or (S—S) group in its molecule.

Claim 17 (new): The method of Claim 16, wherein the organic silicon-containing compound, the organic sulfur-containing compound, the organic fluorine-containing compound or the organic nitrogen-containing compound comprises at least one selected from the group consisting of chlorotrialkyl silane compounds, dichlorodialkyl silane compounds, trichloroalkyl silane compounds, alkyl dimethyl(dimethylamino)silane compounds, alkanethiol compounds, dialkylsulfide compounds, dialkyldisulfide compounds, and dimethylammonium compounds.

Claim 18 (new): The method of Claim 14, wherein a temperature of the heat-treatment is 200 to 800 °C.

Claim 19 (new): The method of Claim 14, wherein a free surface energy of a surface of the glass material obtained by the heat-treatment is 70mJ/m² or less.

Claim 20 (new): A method of manufacturing an optical glass element, comprising:
providing a self-assembled film on a surface of a preformed glass material;
softening the glass material by heat; and
press molding the glass material with a pressing mold.

Claim 21 (new): The method of Claim 20, wherein providing a self-assembled film on the surface of the preformed glass material comprises immersing the preformed glass material in an organic solution containing an organic silicon-containing compound, an organic sulfur-containing compound, an organic fluorine-containing compound or an organic nitrogen-containing compound to obtain the glass material comprising the self-assembled film on a surface.

Claim 22 (new): The method of Claim 21, wherein the organic silicon-containing compound, the organic sulfur-containing compound, the organic fluorine-containing compound or the organic nitrogen-containing compound comprises a —Cl group, —H group, or (S—S) group in its molecule.

Claim 23 (new): The method of Claim 22, wherein the organic silicon-containing compound, the organic sulfur-containing compound, the organic fluorine-containing compound or the organic nitrogen-containing compound comprises at least one selected from the group consisting of chlorotrialkyl silane compounds, dichlorodialkyl silane compounds, trichloroalkyl silane compounds, alkyldimethyl(dimethylamino)silane compounds, alkanethiol compounds, dialkylsulfide compounds, dialkyldisulfide compounds, and dimethylammonium compounds.

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Preliminary Amendment

Claim 24 (new): The method of Claim 20, further comprising heat-treating the glass material after providing the self-assembled film on the surface of the glass material in a non-oxidizing atmosphere so that at least a part of the self-assembled film is thermally decomposed.